

WHAT IS CLAIMED IS:

1. An information providing system, comprising a mobile terminal and an information providing device,  
said mobile terminal including  
a communication circuit communicating with said information  
5 providing device,  
a detection circuit detecting a position of said mobile terminal,  
an output circuit outputting information, and  
a control circuit connected to said communication circuit, said  
detection circuit and said output circuit, and controlling said mobile  
10 terminal,  
said control circuit including a circuit controlling said detection  
circuit and said communication circuit such that positional information  
representing a position of said mobile terminal is transmitted to said  
information providing device,  
15 said information providing device including  
a communication circuit communicating with said mobile terminal,  
a first storage circuit storing plan information representing a plan to  
be executed by a user of said mobile terminal, and  
a control circuit connected to said communication circuit and said  
20 first storage circuit, and controlling said information providing device,  
said control circuit of said information providing device including a  
circuit controlling said communication circuit such that information related  
to an activity for executing said plan is transmitted to said mobile terminal,  
based on said positional information received from said mobile terminal and  
25 said plan information stored in said first storage circuit,  
said control circuit of said mobile terminal further including a circuit  
controlling said output circuit such that the information related to the  
activity for executing said plan received from said information providing  
device is output.

2. The information providing system according to claim 1, wherein

said plan information includes location information representing an execution location where said plan is executed, and

said control circuit of said information providing device includes

a circuit conducting a search for a route of traveling from a position of said mobile terminal to said execution location, based on said positional information and said location information, and

a circuit controlling said communication circuit such that information representing said route of traveling is transmitted to said mobile terminal.

3. The information providing system according to claim 1, wherein said plan information includes location information representing an execution location where said plan is executed and time information representing execution time at which said plan is executed, and

said control circuit of said information providing device includes

a circuit conducting a search for a route of traveling from a position of said mobile terminal to said execution location, based on said positional information and said location information,

a circuit calculating time required for said traveling, based on said execution time and said route, and

a circuit controlling said communication circuit such that information representing said route of traveling and information representing said time required for traveling are transmitted to said mobile terminal.

4. The information providing system according to claim 3, wherein said information providing device further includes a second storage circuit storing event information in connection with a location where an event is held and time required for execution of the event, and

said control circuit of said information providing device further includes

a circuit calculating spare time before start of traveling, based on said time required for traveling,

10 a circuit conducting a search for an event that can be executed by a  
user of said mobile terminal, from event information stored in said second  
storage circuit, based on said spare time, said positional information, said  
location where the event is held, and said time required for execution of the  
event, and

15 a circuit controlling said communication circuit such that event  
information representing the event retrieved as a result of said search is  
transmitted to said mobile terminal.

5. The information providing system according to claim 3, wherein  
said information providing device further includes

5 a second storage circuit storing event information in connection with  
a location where an event is held, time required for execution of the event,  
and a detail of the event, and

a third storage circuit storing preference information representing a  
preference of said user, and

said control circuit of said information providing device further  
includes

10 a circuit calculating spare time before start of traveling, based on  
said time required for traveling,

15 a circuit conducting a search for an event that can be executed by a  
user of said mobile terminal, from the event information stored in said  
second storage circuit, based on said spare time, said positional information,  
said location where the event is held, said time required for execution of the  
event, and a degree of matching between said preference information and  
said detail of the event, and

20 a circuit controlling said communication circuit such that event  
information representing the event retrieved as a result of said search is  
transmitted to said mobile terminal.

6. The information providing system according to claim 3, wherein  
said information providing device further includes

a search circuit searching for weather information representing

weather, and

5 a second storage circuit storing event information in connection with a location where an event is held, time required for execution of the event, and weather suitable for the event, and

said control circuit of said information providing device further includes

10 a circuit searching for weather information representing weather at a position specified by said positional information, using said search circuit,

a circuit calculating spare time before start of traveling, based on said time required for traveling,

15 a circuit conducting a search for an event that can be executed by an user of said mobile terminal, from event information stored in said second storage circuit, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said weather information and said weather suitable for the event, and

20 a circuit controlling said communication circuit such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

7. An information providing device used in an information providing system including a mobile terminal and an information providing device, wherein

5 said mobile terminal transmits positional information representing a position of said mobile terminal to said information providing device, and outputs information received from said information providing device,

said information providing device comprises

a communication circuit communicating with said mobile terminal,

10 a first storage circuit storing plan information representing a plan to be executed by a user of said mobile terminal, and

a control circuit connected to said communication circuit and said first storage circuit, and controlling said information providing device, and said control circuit includes a circuit controlling said communication

15 circuit such that information related to an activity for executing said plan is transmitted to said mobile terminal, based on said positional information received from said mobile terminal and said plan information stored in said first storage circuit.

8. The information providing device according to claim 7, wherein said plan information includes location information representing an execution location where said plan is executed, and said control circuit includes

5 a circuit searching for a route of traveling from the position of said mobile terminal to said execution location, based on said positional information and said location information, and

a circuit controlling said communication circuit such that information representing said route of traveling to said mobile terminal.

9. The information providing device according to claim 7, wherein said plan information includes location information representing an execution location where said plan is executed and time information representing execution time at which said plan is executed, and

5 said control circuit includes a circuit searching for a route of traveling from the position of said mobile terminal to said execution location, based on said positional information and said location information,

10 a circuit calculating time required for said traveling, based on said execution time and said route, and

a circuit controlling said communication circuit such that information representing said route of traveling and information representing said time required for traveling are transmitted to said mobile terminal.

10. The information providing device according to claim 9, further comprising:

a second storage circuit storing event information in connection with

5 a location where an event is held and time required for execution of the event,

said control circuit further including

a circuit calculating spare time before start of traveling based on time required for said traveling,

10 a circuit conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage circuit, based on said spare time, said positional information, said location where the event is held, and said time required for execution of the event, and

15 a circuit controlling said communication circuit such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

11. The information providing device according to claim 9, further comprising:

5 a second storage circuit storing event information in connection with a location where an event is held, time required for execution of the event, and a detail of the event, and

a third storage circuit storing preference information representing a preference of said user,

said control circuit further including

10 a circuit calculating spare time before start of traveling, based on said time required for traveling,

a circuit conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage circuit, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said preference information and said detail of the event, and

15 a circuit controlling said communication circuit such that event information representing said event retrieved as a result of said search is transmitted to said mobile terminal.

12. The information providing device according to claim 9, further comprising:

a search circuit searching for weather information representing weather, and

5 a second storage circuit storing event information in connection with a location where an event is held, time required for execution of the event, and weather suitable for the event,

said control circuit further including

10 a circuit searching for weather information representing weather at a position specified by said positional information, using said search circuit,

a circuit calculating spare time before start of traveling, based on said time required for traveling,

15 a circuit conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage circuit, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said weather information and said weather suitable for the event, and

20 a circuit controlling said communication circuit such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

13. An information providing system, comprising a mobile terminal and an information providing device,

said mobile terminal including

5 a communication means for communicating with said information providing device,

a detection means for detecting a position of said mobile terminal, an output means for outputting information, and

10 a control means connected to said communication means, said detection means and said output means, for controlling said mobile terminal,

said control means including a means for controlling said detection

means and said communication means such that positional information representing a position of said mobile terminal is transmitted to said information providing device,

15        said information providing device including  
         a communication means for communicating with said mobile terminal,

         a first storage means for storing plan information representing a plan to be executed by a user of said mobile terminal, and

20        a control means connected to said communication means and said first storage means, for controlling said information providing device,

         said control means of said information providing device including a means for controlling said communication means such that information related to an activity for executing said plan is transmitted to said mobile  
25        terminal, based on said positional information received from said mobile terminal and said plan information stored in said first storage means,

         said control means of said mobile terminal further including a means for controlling said output means such that the information related to the activity for executing said plan, received from said information  
30        providing device, is output.

14. The information providing system according to claim 13, wherein

         said plan information includes location information representing an execution location where said plan is executed, and

5        said control means of said information providing device includes  
         a means for searching for a route of traveling from a position of said mobile terminal to said execution location, based on said positional information and said location information, and

         a means for controlling said communication means such that  
10        information representing said route of traveling is transmitted to said mobile terminal.

15. The information providing system according to claim 13,



wherein

said plan information includes location information representing an execution location where said plan is executed, and time information representing execution time at which said plan is executed, and

5       said control means of said information providing device includes  
a means for searching for a route of traveling from a position of said mobile terminal to said execution location, based on said positional information and said location information,

10       a means for calculating time required for said traveling, based on  
said execution time and said route, and

a means for controlling said communication means such that information representing said route of traveling and information representing said time required for traveling are transmitted to said mobile terminal.

15       16. The information providing system according to claim 15,  
wherein

said information providing device further includes a second storage means for storing event information in connection with a location where an event is held and time required for execution of the event, and

20       said control means of said information providing device further  
includes

a means for calculating spare time before start of traveling, based on said time required for traveling,

25       a means for conducting a search for an event that can be executed by  
a user of said mobile terminal, from the event information stored in said second storage means, based on said spare time, said positional information, said location where the event is held, and said time required for execution of the event, and

30       a means for controlling said communication means such that event  
information representing the event retrieved as a result of said search to said mobile terminal.

17. The information providing system according to claim 15,  
wherein

said information providing device further includes

a second storage means for storing event information in connection  
with a location where an event is held, time required for execution of the  
event, and a detail of the event, and

a third storage means for storing preference information  
representing a preference of said user, and

said control means of said information providing device further  
includes

a means for calculating spare time before start of traveling, based on  
said time required for traveling,

a means for conducting a search for an event that can be executed by  
a user of said mobile terminal, from the event information sorted in said  
second storage means, based on said spare time, said positional information,  
said location where an event is held, said time required for execution of the  
event, and a degree of matching between said preference information and  
said detail of the event, and

a means for controlling said communication means such that event  
information representing the event retrieved as a result of said search is  
transmitted to said mobile terminal.

18. The information providing system according to claim 15,  
wherein

said information providing device further includes

a search means for searching for weather information representing  
weather, and

a second storage means for storing event information in connection  
with a location where an event is held, time required for execution of the  
event, and weather suitable for the event, and

said control means of said information providing device further  
includes

a means for searching for weather information representing weather

at a position specified by said positional information, using said search means,

a means for calculating spare time before start of traveling, based on said time required for traveling,

5 a means for conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage means, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said weather information and said weather suitable for the event, and

10 a means for controlling said communication means such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

15 19. An information providing device used in an information providing system including a mobile terminal and the information providing device, wherein

said mobile terminal transmits positional information representing a position of said mobile terminal to said information providing device, and outputs information received from said information providing device,

20 said information providing device further includes

a communication means for communicating with said mobile terminal,

a first storage means for storing plan information representing a plan to be executed by a user of said mobile terminal, and

25 a control means connected to said communication means and said first storage means, for controlling said information providing device, and

said control means includes a means for controlling said communication means such that information related to an activity for executing said plan is transmitted to said mobile terminal, based on said positional information received from said mobile terminal and said plan information stored in said first storage means.

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20. The information providing device according to claim 19,  
wherein

said plan information includes location information representing an  
execution location where said plan is executed, and

said control means includes

a means for searching for a route of traveling from a position of said  
mobile terminal to said execution location, based on said positional  
information and said location information, and

a means for controlling said communication means such that  
information representing said route of traveling is transmitted to said  
mobile terminal.

21. The information providing device according to claim 19,  
wherein

said plan information includes location information representing an  
execution location where said plan is executed, and time information  
representing execution time at which said plan is executed, and

said control means includes

a means for searching for a route of traveling from a position of said  
mobile terminal to said execution location, based on said positional  
information and said location information,

a means for calculating time required for said traveling, based on  
said execution time and said route, and

a means for controlling said communication means such that  
information representing said route of traveling and information  
representing said time required for traveling are transmitted to said mobile  
terminal.

22. The information providing device according to claim 21, further  
comprising a second storage means for storing event information in  
connection with a location where an event is held and time required for  
execution of the event,

said control means further including

a means for calculating spare time before start of traveling, based on said time required for traveling,

a means for conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage means, based on said spare time, said positional information, said location where the event is held, and said time required for execution of the event, and

a means for controlling said communication means such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

23. The information providing device according to claim 21, further comprising:

a second storage means for storing event information in connection with a location where an event is held, time required for execution of the event, and a detail of the event, and

a third storage means for storing preference information representing a preference of said user,

said control means further including

a means for calculating spare time before start of traveling, based on said time required for traveling,

a means for conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage means, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said preference information and said detail of the event, and

a means for controlling said communication means such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

24. The information providing device according to claim 21, further comprising:

a search means for searching for weather information representing weather, and

a second storage means for storing event information in connection with a location where an event is held, time required for execution of the event, and weather suitable for the event,

said control means further including

a means for searching for weather information representing weather at a position specified by said positional information, using said search means,

a means for calculating spare time before start of traveling based on said time required for traveling,

a means for conducting a search for an event that can be executed by a user of said mobile terminal, from the event information stored in said second storage means, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said weather information and said weather suitable for the event, and

a means for controlling said communication means such that event information representing the event retrieved as a result of said search is transmitted to said mobile terminal.

25. An information providing method providing a mobile terminal with information, comprising the steps of:

preparing plan information representing a plan to be executed by a user of said mobile terminal,

receiving positional information representing a position of said mobile terminal from said mobile terminal,

generating information related to an activity for executing said plan, based on said positional information received at said step of receiving the positional information and based on said plan information prepared at said step of preparing the plan information, and

transmitting said information related to the activity generated at said step of generating information related to the activity to said mobile

terminal.

26. The information providing method according to claim 25,  
wherein

said plan information includes location information representing an  
5 execution location where said plan is executed,

said step of generating information related to the activity includes  
the step of searching for a route of traveling from the position of said mobile  
terminal to said execution location, based on said positional information and  
said location information, and

10 said step of transmitting information related to the activity includes  
the step of transmitting information representing said route of traveling to  
said mobile terminal.

27. The information providing method according to claim 25,  
wherein

15 said plan information includes location information representing an  
execution location where said plan is executed and time information  
representing execution time at which said plan is executed,

said step of generating information related to the activity includes  
the steps of

20 searching for a route of traveling from the position of said mobile  
terminal to said execution location, based on said positional information and  
said location information, and

calculating time required for said traveling, based on said execution  
time and said route, and

25 said step of transmitting information related to the activity includes  
the step of transmitting, to said mobile terminal, information representing  
said route of traveling and information representing said time required for  
said traveling.

28. The information providing method according to claim 27,  
30 further comprising the step of preparing event information in connection

with a location where an event is held and time required for execution of the event,

said step of generating information related to the activity further including the steps of

5 calculating spare time before start of traveling based on time required for said traveling, and

conducting a search for an event that can be executed by a user of said mobile terminal, from said prepared event information, based on said spare time, said positional information, said location where the event is held  
10 and said time required for execution of the event,

said step of transmitting information related to the activity further including the step of transmitting event information representing the event retrieved as a result of said search to said mobile terminal.

29. The information providing method according to claim 27,  
15 further comprising the steps of:

preparing event information in connection with a location where an event is held, time required for execution of the event, and a detail of the event, and

20 preparing preference information representing a preference of said user,

said step of generating information related to the activity further including the steps of

calculating spare time before start of traveling based on said time required for traveling, and

25 conducting a search for an event that can be executed by a user of said mobile terminal, from said prepared event information, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said preference information and said detail of the event,

30 said step of transmitting information related to the activity further including the step of transmitting event information representing the event retrieved as a result of said search to said mobile terminal.



30. The information providing method according to claim 27,  
further comprising the step of preparing event information in connection  
with a location where an event is held, time required for execution of the  
event, and weather suitable for the event,

5       said step of generating information related to the activity further  
including the steps of

      searching for weather information representing weather at a  
position specified by said positional information,

10       calculating spare time before start of traveling based on said time  
required for traveling, and

      conducting a search for an event that can be executed by a user of  
said mobile terminal, from said prepared event information, based on said  
spare time, said positional information, said location where the event is held,  
said time required for execution of the event, and a degree of matching  
15       between said weather information and said weather suitable for the event,

      said step of transmitting said information related to the activity  
further including the step of transmitting event information representing  
the event retrieved as a result of said search to said mobile terminal.

31. A computer-readable recording medium in which a program  
20       implementing an information providing method providing a mobile terminal  
with information is recorded, wherein

      said information providing method includes the steps of

      preparing plan information representing a plan to be executed by a  
user of said mobile terminal,

25       receiving positional information representing a position of said  
mobile terminal from said mobile terminal,

      generating information related to an activity for executing said plan,  
based on said positional information received at said step of receiving the  
positional information and based on said plan information prepared at said  
30       step of preparing the plan information, and

      transmitting, to said mobile terminal, said information related to the  
activity generated at said step of generating information related to the

activity.

32. The recording medium according to claim 31, wherein  
said plan information includes location information representing an  
execution location where said plan is executed,

5        said step of generating said information related to the activity  
includes the step of searching for a route of traveling from a position of said  
mobile terminal to said execution location, based on said positional  
information and said location information, and

10       said step of transmitting said information related to the activity  
includes the step of transmitting information representing said route of  
traveling to said mobile terminal.

33. The recording medium according to claim 31, wherein  
said plan information includes location information representing an  
execution location where said plan is executed and time information  
15       representing execution time at which said plan is executed,

      said step of generating information related to the activity includes  
the steps of

20       searching for a route of traveling from the position of said mobile  
terminal to said execution location, based on said positional information and  
said location information, and

      calculating time required for said traveling based on said execution  
time and said route, and

25       said step of transmitting information related to the activity includes  
the step of transmitting, to said mobile terminal, information representing  
said route of traveling and information representing said time required for  
traveling.

34. The recording medium according to claim 33, wherein  
said information providing method further includes the step of  
preparing event information in connection with a location where an event is  
30       held and time required for execution of the event,

said step of generating information related to the activity further includes the steps of

calculating spare time before start of traveling, based on said time required for traveling, and

5       conducting a search for an event that can be executed by a user of said mobile terminal, from said prepared event information, based on said spare time, said positional information, said location where the event is held, and said time required for execution of the event, and

10       said step of transmitting said information related to the activity further includes the step of transmitting event information representing the event retrieved as a result of said search to said mobile terminal.

35. The recording medium according to claim 33, wherein said information providing method further includes the steps of preparing event information in connection with a location where an  
15       event is held, time required for execution of the event, and a detail of the event, and

preparing preference information representing a preference of said user,

20       said step of generating information related to the activity further includes the steps of

calculating spare time before start of traveling, based on said time required for traveling, and

25       conducting a search for an event that can be executed by a user of said mobile terminal, from said prepared event information, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching between said preference information and said detail of the event, and

30       said step of transmitting information related to the activity further includes the step of transmitting event information representing the event retrieved as a result of said search to said mobile terminal.

36. The recording medium according to claim 33, wherein

said information providing method further includes the step of preparing event information in connection with a location where an event is held, time required for execution of the event, and weather suitable for the event,

5        said step of generating information related to the activity further includes the steps of

          searching for weather information representing weather at a position specified by said positional information,

          calculating spare time before start of traveling based on said time  
10        required for traveling, and

          conducting a search for an event that can be executed by a user of said mobile terminal, from said prepared event information, based on said spare time, said positional information, said location where the event is held, said time required for execution of the event, and a degree of matching  
15        between said weather information and said weather suitable for the event, and

          said step of transmitting information related to the activity further includes the step of transmitting event information representing the event retrieved as a result of said search to said mobile terminal.